

SystempaK (Analog Type) Isolator Module for Output Model J-SOV 60

Introduction

The Isolator Module for Output is a dedicated model for the Azbil Corporation's Process Controller, and a 4 to 20 mA DC signal from AO modules, such as DOPC III, is converted into an isolated 4 to 20 mA DC output. Connection between the AO modules and the J-SOV60 is made through a 50P connector of the SystempaK File for A-MC.

Complete isolation is employed between the power, input, and output circuits.

Specification

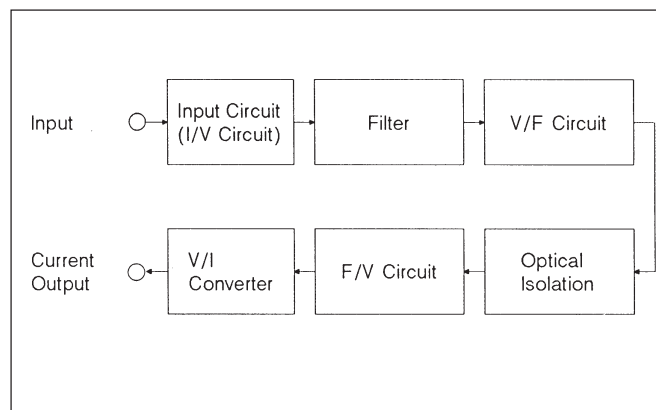
- Input signal: 4 to 20 mA DC (through the edge connector)
- Input impedance: 250 Ω
- Output signal: 4 to 20 mA DC
- Output impedance: 250 k Ω or more
- Load: 0 to 600 Ω
- Accuracy: $\pm 0.15\%$ FS
- Insulation resistance: 500V DC, 100 M Ω min
(Mutual between input - output - GND - power terminal)
- Withstand voltage: 1000V AC, 1 minute
(Mutual between input - output - GND - power terminal)
- Power supply: 24V DC $^{+10}_{-15}\%$
- Current consumption: 120 mA (at 24V)
- Ambient temperature:
 - Normal operating condition; 5 to 45 $^{\circ}$ C
 - Operation limit; -5 to 55 $^{\circ}$ C
- Ambient humidity: 0 to 90%RH (No condensation allowed)
- Mounting: File
- Front mask color: Black
- Weight: 250 g
- Operating influence:
 - Supply voltage effect; $\pm 0.1\%$ FS/24V $^{+10}_{-15}\%$ DC%
 - Temperature effect; $\pm 0.15\%$ FS/10 $^{\circ}$ C



Theory of Operation

An input is current-to-voltage converted through the Input circuit, and the Filter circuit removes any AC noise.

Signal isolation is achieved by the photocoupler connected between the V/F and the F/V circuits, resulting in a current output.

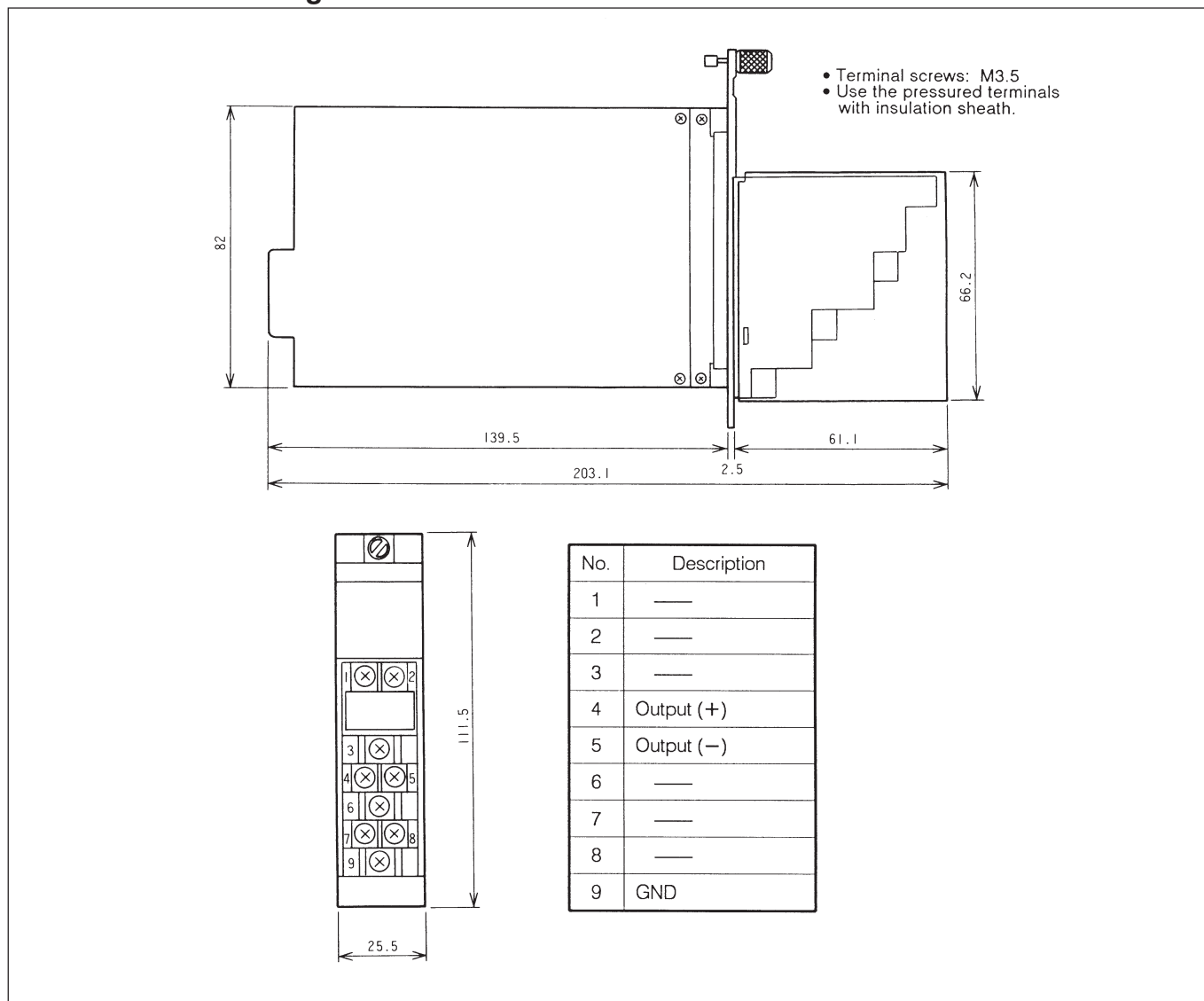


Model Number Table

Basic Model Number	Selections		Additions	Description
	I	II	I	
J-SOV60				Isolator module for output
	X			No varnish coated
	C			Varnish coated
		-0		No selection
			0	No selection
			-0	Without test report
			-1	With test report

Example: J-SOV60X-00-0

Dimensions and Wirings



Please read the "Terms and Conditions" from the following URL before ordering or use:

<http://www.azbil.com/products/bi/order.html>

Specifications are subject to change without notice.

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